PTO/SB/05 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION **TRANSMITTAL** 

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Under the Paperwork Reduction Act of 1995, no persons are required to re

period of domocon or information arranged in the party of the contract of the						
Attorney Docket No.	CM05628J					
First Inventor	Young-Seo Park	•				
Title						
Express Mail Label No.	EV 116 541 077 US		_			

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450								
1. Fee Transmittal Form (e.g., PTO/SB/17)  (Submit an original and a duplicate for fee processing)  Applicant claims small entity status.  See 37 CFR 1.27.  Specification [Total Pages 11 ]  (preferred arrangement set forth below)  - Descriptive title of the invention  - Cross Reference to Related Applications  - Statement Regarding Fed sponsored R & D  - Reference to sequence listing, a table,  or a computer program listing appendix  - Background of the Invention  - Brief Summary of the Invention  - Brief Summary of the Drawings (if filed)  - Detailed Description  - Claim(s)  - Abstract of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS								
4.  Drawing(s) (35 U.S.C. 113) [Total Sheets1]	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of								
Oath or Declaration [Total Sheets2]     a.    Newly executed (original or copy)	(when there is an assignee)  Attorney  English Translation Document (if applicable)  Information Disclosure  Copies of IDS								
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76	Statement (IDS)/PTO-1449 Citations Preliminary Amendment Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  Other: Express Mail Certificate.								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:									
Continuation Divisional Continua	ion-in-part (CIP) of prior application No.:								
Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
19. CORRESPONI	DENCE ADDRESS								
Customer Number: 20576	OR Correspondence address below								
Name									
Address									
City	State Zip Code								
Country	lephone . Fax								
Name (Print/Type)   Frank M. Softch, III   Registration No. (Attorney/Agent)   34,484									
Signature 7/h V V V I V	Date 1031 03								

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL			C mplete if Known						
			Application Number						
for FY 2004		Filing	Date						
		First Named Inven		Inven	tor	You	ng-Seo	Park	
Effective 10/01/2003. Patent fees are subject to annual revision		Examiner Name					•		
Applicant claims small entity status. See 37 CFR 1.27		- 'Art Unit							
TOTAL AMOUNT OF PAYMENT (\$) 810.00	•	Attorney Docket No. CM05628J							
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)							
X Check Credit card Money Other None		DDIT			S				
Deposit Account:		Entity					-		•••
Deposit		Fee e (\$)	Fee Code	Fee (\$)		Fee D	escription	)	Fee Paid
Account Number	1051	- 130	2051	65	Surcha	rge - late	filing fee or o	oath .	
Deposit Account	1052	50	2052		Surcha cover s		provisional fi	ling fee or	
Name		130	1053			nglish spe	cification		
The Director is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments	1812	2,520	1812 2	2,520	For filin	g a reque	st for ex part	te reexaminatio	n
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804			sting publi er action	cation of SIR	R prior to	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805 <sup>-</sup>	1,840*	Reque		ication of SIF	R after	
FEE CALCULATION		110	2251	55	Extens	ion for rep	oly within firs	t month	1
1. BASIC FILING FEE	1252	420	2252	210	Extens	ion for re	ply within sec	cond month	<del>                                     </del>
Large Entity Small Entity	1253		2253	475	Extens	ion for re	ply within thir	rd month	<del>                                     </del>
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740			ply within fou		<u> </u>
1001 770 2001 385 Utility filing fee 770.00	1255	2,010	2255	1,005	Extens	ion for re	ply within fifth	h month	<del>  </del>
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice	of Appea	l :		
1003 530 2003 265 Plant filing fee	1402		2402		_		support of an	appeal	<del>  </del>
1004 770 2004 385 Reissue filing fee	1403		2403		-	st for oral	=		<u>├</u>
1005 160 2005 80 Provisional filing fee	l	1,510					•	se proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452 2453				- unavoidab - unintentio		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	ı	1,330	2501				(or reissue)		
Fee from Ext <u>ra Claims below Fee Paid</u>	1502		2502			issue fee			
Total Claims 9 -20** = 0 X = 0	1503	640	2503	320	Plant i	ssue fee			
Claims	1460	130	1460	130	Petitio	ns to the	Commissione	er	
Multiple Dependent	1807	50	1807	50	Proce	ssing fee i	under 37 CFI	R 1.17(q)	
Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806					sclosure Stmt	<b>   </b>
Code (\$) Code (\$)	8021	40	8021	40	proper	ling each ty (times r	patent assigi number of pri	nment per operties)	40.00
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385			ion after final	l rejection	
1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	•	R 1.129(a ch additio	a)) nal invention	to be	
1204 86 2204 43 ** Reissue independent claims over original patent			2801		exami	ned (37 C	FR 1.129(b))		
1205 18 2205 9 ** Reissue claims in excess of 20	180 180		1802		Requ	est for ex	pedited exam	• •	
and over original patent		r foo (oo	acifu)		of a d	esign appl	ication		
SUBTOTAL (2) (\$) 0	ŧ	r fee (sp luced by		iling Fe	ee Paid		UBTOTAL	(3) (\$)	40.00
or number previously paid, I greater, For Keissues, see above									
SUBMITTED BY (Complete (if applicable))  Registration No. 0 / 10 / Telephone (1 ( 0.03 ) 1.7.7.7									
Name (Print/Type)   Frank M. Scutch all	$\mathcal L$	(Attorney)		34	<b>,</b> 484		Telephone Date	616,831	1777
WARNING: Information on this form may bec me public. Cr dit card information should n t									

be included on this form. Pr vide credit card information and authorizati n on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any complete of the individual case. Any complete of the individual case. the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicants** 

Young-Seo Park et al.

For

CHANNEL CONDITION ESTIMATION FOR PILOT

**COEFFICIENT SELECTION** 

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

## **CERTIFICATE OF EXPRESS MAILING**

I hereby certify that the attached patent application and related papers are being deposited with the United States Postal Service using Express Mail Service, Express Mail Label No. EV 116 541 077 US in an envelope addressed to:

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

on October 31, 2003.

Martha I. Rinchetti

Miller, Johnson, Snell & Cummiskey, P.L.C.

P.O. Box 306

250 Monroe Avenue, N.W., Suite 800 Grand Rapids, Michigan 49501-0306

(616) 831-1700

#783294

i